

NCP-19-7539



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D5528-1

Job Sheet 189981



Part No: D5528-1

Job Qty: 10 pcs

Part Name: Tubing



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 2/1/19

Job Tracking No:

Due Date: 2/14/19

Created By: Chantal Lavoie

Type: Stock

Description:

Note: DWG REV A IPP REV:A 17.04.25 NEW ISSUE DD VERF:JFS

Ship Via:

3 Roll of Soft + 10 cut per Day - 10 ft small job.

Bill of Materials

CL

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup	Run	Workcenter / Supplier	Lead Time	
100	Purchasing	10 pcs	2/14/19	0.00 0.00			Purchasing - 1		FEB 08 2019
							Purchasing - 2		
							Purchasing - 3		
110	Packaging 2-1 - Receive - B4B	10 pcs	2/14/19	0.00 0.00			Packaging 2 - 1 - B4B		FEB 08 2019
							Packaging 2 - 2 - B4B		
							Packaging 2 - 3 - B4B		
							Packaging 2 - 5 - B4B		
							Packaging 2 - 4 - B4B		
							Packaging 2 - 6 - B4B		
							Packaging 2 - 7 - B4B		
							Packaging 2 - 8 - B4B		
							Packaging 2 - 9 - B4B		
							Packaging 2 - 10 - B4B		
							Packaging 2 - 11 - B4B		
							Packaging 2 - 12 - B4B		
							Packaging 2 - 13 - B4B		
							Packaging 2 - 14 - B4B		
							Packaging 2 - 15 - B4B		
							Packaging 2 - 16 - B4B		
							Packaging 2 - 17 - B4B		
							Packaging 2 - 18 - B4B		
							Packaging 2 - 19 - B4B		
							Packaging 2 - 20 - B4B		
							Packaging 2 - 21 - B4B		
							Packaging 2 - 22 - B4B		
							Packaging 2 - 23 - B4B		
							Packaging 2 - 24 - B4B		
							Packaging 2 - 25 - B4B		
							Packaging 2 - 26 - B4B		
							Packaging 2 - 27 - B4B		
							Packaging 2 - 28 - B4B		



Dart Aerospace Ltd.
1270 Aberdeen Street
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CANADA
TEL: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Container No: S152055



Part: D5528-1

Job No: 189981

Serial No/Batch: S152055

Revision:

Inspector:

Exp Date:

Instructions: Various STC's

Date: 02/05/19

P.T.O.

					Packaging 2 - 29 - B4B	
					Packaging 2 - 30 - B4B	
					Packaging 2 - 31 - B4B	
					Packaging 2 - 32 - B4B	
					Packaging 2 - 33 - B4B	
					Packaging 2 - 34 - B4B	
					Packaging 2 - 35 - B4B	
					Packaging 2 - 36 - B4B	
120 QC 6	10 pcs	2/14/19	0.00 0.00		QC 6 - 38	
					QC 6 - 42	
					QC 6 - 9	
					QC 6 - 68	DAS FEB 7 6 2019 68
					QC 6 - 61	9-89
130 Packaging 3-1 - Stock - B4B	10 pcs	2/14/19	0.00 0.00		Packaging 3 - 1 - B4B	
					Packaging 3 - 2 - B4B	
					Packaging 3 - 3 - B4B	
					Packaging 3 - 4 - B4B	
					Packaging 3 - 5 - B4B	
					Packaging 3 - 6 - B4B	
					Packaging 3 - 7 - B4B	
					Packaging 3 - 8 - B4B	
					Packaging 3 - 9 - B4B	
					Packaging 3 - 10 - B4B	
					Packaging 3 - 11 - B4B	
					Packaging 3 - 12 - B4B	
					Packaging 3 - 13 - B4B	
					Packaging 3 - 14 - B4B	
					Packaging 3 - 15 - B4B	
					Packaging 3 - 16 - B4B	
					Packaging 3 - 17 - B4B	
					Packaging 3 - 18 - B4B	
					Packaging 3 - 19 - B4B	
					Packaging 3 - 20 - B4B	
					Packaging 3 - 21 - B4B	
					Packaging 3 - 22 - B4B	
					Packaging 3 - 23 - B4B	
					Packaging 3 - 24 - B4B	
					Packaging 3 - 25 - B4B	
					Packaging 3 - 26 - B4B	
					Packaging 3 - 27 - B4B	51609 34
					Packaging 3 - 28 - B4B	FEB 7 6 2019
					Packaging 3 - 29 - B4B	
					Packaging 3 - 30 - B4B	
					Packaging 3 - 31 - B4B	
					Packaging 3 - 32 - B4B	
					Packaging 3 - 33 - B4B	
					Packaging 3 - 34 - B4B	
					Packaging 3 - 35 - B4B	
					Packaging 3 - 36 - B4B	DAS
140 QC 21 - SA	10 pcs	2/14/19	0.00 0.00		QC 21 - SA - 21	21
					QC 21 - SA - 70	9-89 FEB 2 0 2019

Part Op 110 - Receive & Inspect for Damage & Mat'l Certs
 Descriptions: 120 - QC6- All purchased or subcontracted products
 130 - Identify as per dwg & Stock Location: _____
 140 - QC21- Final Inspection - Work Order Release

Job BOM

Part / Item	Component Name	Quantity	Operation
6519T14	Tubing D5528-1	10 Ea (1 ea)	100-Purchasing

Container

Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	6519T14	10	0	0
Part Specifications				
Specifications could not be found.				

Plex 2/1/19 11:25 AM dart.lavoie.chantal

SPECIFICATION CONTROL DRAWING



D5528-X TUBING, PVC

DART PN	DESCRIPTION	MANUFACTURER	MANUFACTURER PN	VENDOR	VENDOR PN	MATERIAL	I.D. (INCHES)	L (FEET)	COLOUR
D5528-1	TUBING	SAINT-GOBAIN CORPORATION	TYGON VERSILON SE200	MCMASTER-CARR	6519T14	PVC TUBING	3/8	10	CLEAR

NOTES:

- 1) MATERIAL: SEE TABLE
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: N/A

RELEASED
2017-05-16
ECW 17-511

APPROVED

A	NEW ISSUE	WK	17.03.29
REV.	DESCRIPTION	BY	DATE
DESIGN	WK	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	WK		
CHECKED	VS	DRAWING NO.	REV. A
MFG. APPR.	LL	D5528	SHEET 1 OF 1
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	TUBING, PVC	NTS
DATE	17.03.29	COPYRIGHT © 2017 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

BLANKET PURCHASE ORDER PO042479



Supplier: MCM001-VU
McMaster-Carr Supply Co,
P.O. Box 7690
Chicago, IL 60680-7690 USA
Phone: 330 995 5500
Fax: 330 995 9600

PO No: PO042479

PO Date: 2/1/19

Due Date: 2/8/19

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Belanger, NatashaPhone:

Blanket Order: -

Via: Ground

Pynt Terms: 2% 10 Net 30

Freight Terms:

Special Comments:

REVISED

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1		2044T67	50/pk	Cap Ø1.09 receive ea	-	-		0 Ea	0 Ea	0 Ea	\$0.2354/Ea	
				FEB 08 2019	Firmed	-	2/8/19	100 Ea	0 Ea	100 Ea	\$0.2354/Ea	\$23.54
								Sub Total:	100	0	100	\$23.54
2		3777T12	1/pk	Spring Catch receive ea	-	-		0 Ea	0 Ea	0 Ea	\$11.52/Ea	
3		51495K116	1/pk	COUPLING 1/2" NCKL PLTD BRASS	-	-		0 Ea	0 Ea	0 Ea	\$7.78/Ea	
4		91585A030	91585A271 50/pk	Dowel Pin receive ea	-	-		0 Ea	0 Ea	0 Ea	\$0.1422/Ea	
5		9263K519	25/pk	O-ring receive ea	-	-		0 Ea	0 Ea	0 Ea	\$0.4844/Ea	

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BLANKET PURCHASE ORDER PO042479



Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
6		EL-PLUG-F	7216k6 1/pk color yellow	3-Prong Female Spade Plug	-	-		0 Ea	0 Ea	0 Ea	\$12.23/Ea	
7		SWA3-700	9529K15 100/per pk	9529K15 Bearing Balls - 1/4"	-	-		0 Ea	0 Ea	0 Ea	\$0.1056/Ea	
8		3495T43	1/pk	Heavy Duty Wire Rope Thimble - for Lifting, 18-8 Stainless Steel, for 1" Rope Diameter	-	-		0 Ea	0 Ea	0 Ea	\$55.90/Ea	
Line Item Note WELDING ERIC.L												
9		6519T14		Tubing D5528-1 AS PER DWG D5528 REV. A PCS OF 10 FT LONG REQUIRED	-	-		0 Ea	0 Ea	0 Ea	\$74.55/Ea	
					Firmed	-	2/11/19	10 Ea	0 Ea	10 Ea	\$74.55/Ea	\$745.50
Sub Total:								10	0	10		\$745.50



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BLANKET PURCHASE ORDER PO042479



Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
10		9056K57	6 / FT	6061 Aluminum Round Tube, 1/2" Wall, 5" OD	-	-		0 ft	0 ft	0 ft	\$71.526666/ft	
Grand Total:												\$769.04

Order Notes

Procurement Quality Clauses
 A005 RIGHT OF ENTRY
 A016 PERSONNEL QUALIFICATION
 A026 CERTIFICATION OF MATERIAL CONFORMANCE
 A032 DOCUMENT SPECIAL REQUIREMENTS
 A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS
 A040 NOTIFICATION OF QUALITY ESCAPE
 A041 QUALITY MANAGEMENT SYSTEM
 A042 DART NOTIFICATION BY SUPPLIER
 A043 RETENTION OF QUALITY DOCUMENTS

 A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM
 A049 SUPPLIER AWARENESS

CL

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

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Hawkesbury, ON
K6A 1K7
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Tel (613) 632-5200

PURCHASE ORDER PO042479



Supplier: MCM001-VU
McMaster-Carr Supply Co,
P.O. Box 7690
Chicago, IL 60680-7690 USA
Phone: 330 995 5500
Fax: 330 995 9600

PO No: PO042479

PO Date: 2/1/19

Due Date: 2/8/19

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Phone:

FEB 0 1 2019

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: 2% 10 Net 30

Freight Terms:

Special Comments:

Items												
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
①		2044T67	50/pk	Cap Ø1.09	Firmed		2/8/19	100 Ea	0 Ea	100 Ea	\$0.2354/Ea	\$23.54
		3777T12	1/pk	Spring Catch	Firmed		2/8/19	2 Ea	0 Ea	2 Ea	\$11.52/Ea	\$23.04
				receive ea								
③		51495K116	1/pk	COUPLING 1/2" NCKL PLTD BRASS	Firmed		2/8/19	10 Ea	0 Ea	10 Ea	\$7.78/Ea	\$77.80
④		91585A030	91585A271	Dowel Pin	Firmed		2/8/19	50 Ea	0 Ea	50 Ea	\$0.1422/Ea	\$7.11
			50/pk	receive ea								
⑤		9263K519	25/pk	O-ring	Firmed		2/8/19	25 Ea	0 Ea	25 Ea	\$0.4844/Ea	\$12.11
				receive ea								
⑥		EL-PLUG-F	7216k6	3-Prong Female Spade Plug	Firmed		2/8/19	10 Ea	0 Ea	10 Ea	\$12.23/Ea	\$122.30
			1/pk color yellow									
⑦		SWA3-700	9529K15	9529K15 Bearing Balls - 1/4"	Firmed		2/8/19	500 Ea	0 Ea	500 Ea	\$0.1056/Ea	\$52.80
			100/per pk									
⑧		3495T43	1/pk	Heavy Duty Wire Rope Thimble - for Lifting, 18-8 Stainless Steel, for 1" Rope Diameter	Firmed		2/8/19	4 Ea	0 Ea	4 Ea	\$55.90/Ea	\$223.60

Line Item Note WELDING ERIC.L



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PURCHASE ORDER

PO042479



Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
9		6519T14		Tubing D5528-1 AS PER DWG D5528 REV. A PCS OF 10 FT LONG REQUIRED 3 ROLLS OF 50 FT	Firmed	-	2/8/19	150 Ea	0 Ea	150 Ea	\$4.82/Ea	\$723.00
* 189981												
150 X FEB 08 2019												
10		9056K57	6 / FT	6061 Aluminum Round Tube, 1/2" Wall, 5" OD	Firmed	-	2/8/19	6 ft	0 ft	6 ft	\$71.526666/ft	\$429.16
6ft X FEB 08 2019												
Grand Total:												\$1,694.46

Order Notes

Procurement Quality Clauses

- A005 RIGHT OF ENTRY
- A016 PERSONNEL QUALIFICATION
- A026 CERTIFICATION OF MATERIAL CONFORMANCE
- A032 DOCUMENT SPECIAL REQUIREMENTS
- A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS
- A040 NOTIFICATION OF QUALITY ESCAPE
- A041 QUALITY MANAGEMENT SYSTEM
- A042 DART NOTIFICATION BY SUPPLIER
- A043 RETENTION OF QUALITY DOCUMENTS
- A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM
- A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

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200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO042479
Order Placed By
Chantal Lavoie

McMaster-Carr Number
7390228-01

Page 1 of 1
02/01/2019

Line	Product	Ordered	Shipped
8	3495T43 Heavy Duty Wire Rope Thimble - for Lifting, 18-8 Stainless Steel, for 1" Rope Diameter	4 Each	4
9	6519T14 Ultra-Chemical-Resistant Versilon PVC Tubing, 3/8" ID, 9/16" OD, 50 Feet Long	150 Feet	150

Shipped separately from our Cleveland warehouse on 02/01

1	2044T67 End Caps for 1.09" ID Round Cut-to-Length Shipping Tube	2 Packs	2
2	3777T12 316 Stainless Steel Carabiner, Not for Lifting, 200 lbs. Capacity, 5/16" Thick, 15/16" Narrow-End Inside Width	2 Each	2
3	51495K116 Nickel-Plated Brass Push-to-Connect Tube Fitting for Air, Straight Connector, for 1/2" Tube OD	10 Each	10
4	91585A271 18-8 Stainless Steel Dowel Pin, 2.5mm Diameter, 6mm Long	1 Pack	1
5	9263K519 Chemical-Resistant Viton Fluoroelastomer O-Ring, 2 mm Wide, 11 mm ID	1 Pack	1
6	7216K6 Hinged Straight-Blade Housing, 3-Slot Socket, NEMA 5-15, Yellow	10 Each	10
7	9529K15 Hardened 440C Stainless Steel Ball, 1/4" Diameter	5 Packs	5

Entered: ML Date: Oct 24/19



NCR No. 19-7539

WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

Route update only ☐

Job: <u>189981</u>		DISPOSITION		DEPARTMENT/PROCESS			
Part No. <u>D5528-1</u>		Rework ☐ Scrap ☐ Use-as-is ☐		Skid-tube ☐ Machining ☐ Large Fab ☐	Cross tube ☐ Small Fab ☒ Finishing ☐	Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐	Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐
Date : <u>FEB 26 2019</u>		Sequence #: <u>120 QC C</u>		QTY Affected : <u>2 10</u>			MRB (QSI042)
Description Work Order Deviation				Disposition			<u>PD 19-02-26</u>
<u>- HOSE KINKED IN ONE AND TWO PLACES</u>				<u>- SCRAP</u>			Completed By <u>68</u> <u>FEB 26 2019</u>
							Lead hand / Supervisor <u>DAS 30 9-89</u> <u>OCT 29 2019</u>
							QC / QA Coordinator <u>DAS 68 9-89</u> <u>FEB 26 2019</u>
Root Cause		FAULT CATEGORY					
Operator ☐		☐ Pressure/Forced		☐ Contamination		☐ Power Loss/Surge	
Manufacturing Process ☐		☐ Bending		☐ Misaligned/off center		☐ Folio/Program	
Equip/Tooling ☐		☐ Crushing		☐ BOM/Route		☐ Grain Direction	
Handling/Presservation ☒		☐ Cracks		☒ Broken/Damage/Defect		☐ Weld	
Material ☐		☐ Crimp/Kink/Ripple/Wave/Twist		☐ Incomplete/Unclear Instructions		☐ Wrong Stock Pulled	
Product Improvement ☐		☐ Marks/Chatter		☐ Drill Holes		☐ Out of Sequence	
Process Improvement ☐		☐ Mislabeled		☐ Fit/Function		☐ Off-set/Set-up	
Human Factors ☐							
		Other/Details:					